



BOILER AUTOMATION



Our system which is cost effective and user friendly to both in operation side and technical side

Why an upgrade with SMEC Boiler Control Systems

Over the years, SMEC has been attending the Complicated proprietary Boiler Control Systems from few boiler makers for various owners, mostly in emergency situations even upto where vessel expelled from berth etc because of boiler non- performance, as they couldn't fire the boilers even in emergency mode.

What is Required?

Similar to the existing system the retrofit kit mainly consists of three major parts.

For POWER PANEL - The existing power panel is used as is, and only a PLC module is mounted here to take care of the system control, I/O control, and communication with the other system parts. The status of the systems in the power panel also can be seen at any of the local stations or ECR.

For LOCAL CONTROL PANELS - The local control panel will have a Fully Graphical HMI panel for local interaction with the control system. Furthermore, it contains a new generation Automation controller PLC module to take care of the system, I/O control, and communication with the other system parts.

An Industrial PC remotely installed in ECR (Also CCR + bridge if required) provides facilities like fully remote boiler control and data acquisition to show trend curves and to ease fault tracing.

Features

Plug and play HMI

Integrated Feed Water Control System

HMI provides complete real time status of boiler

Network Redundancy for fail safe communication

Standard Schneider components available Globally

Tune control loops from HMI with embedded trend graphs

Economizer /Tanker /Inert gas Generation Mode selection

Tune fuel/air ratio from HMI for optimum combustion control

Network BMS and CCS to Power House Monitoring System

Integrated Burner Management System and Combustion Control System



24x7 Support

www.smecautomation.com

Toll Free : 1800 200 1075



Control Enclosure

- Floor Standing IP 65 Marine enclosure
- Adaptable to vessels existing Control power Source
- Dual 24 VDC loop power with status monitored by PLC
- Optional Panel Air conditioner for Enhanced Reliability

Combustion Control Features

- Boiler Master with bias
- Full set of boiler control loops
- High resolution drum level control
- Loop power supply status monitoring
- Fuel totalizers for current day and previous day
- Network Interface to Power House Monitoring System
- Full metered Fuel/Air Loops with cross limiting and O2 Trim
- Transmitter Failure detection with loop shut down interlocks
- HMI local display & Remote SCADA for all boiler process variables
- Password protected tune screens for PID's, Fuel/Air ratio, Steam flow

Burner Management System Features

- Independent PLC scan watch dog timer
- Performance monitoring system for fuel optimization
- HMI displays burner sequence status and safety circuit chain status

WHY SMEC

Ofcourse, you have very many options from around the globe

But if you are looking for

- ✓ Closer to cost price
- ✓ Life cycle support
- ✓ Acceptable Service rates
- ✓ Across a phone call away
- ✓ Global support

Then SMEC should be your favoured decision



Our Products

SMECled

SMECsolar

Solar Street Light

Customized PLC

AMF (Auto mains failure)

Fire alarm system

Gas detection system

Crusher automation

DG synchronization

Boiler control panel

Trip amplifier

Pump control system

Level /Temp /flow monitoring system

Viscosity control system

AC refrigeration control system

Control pitch propulsion system

Incinerator control system



SMEC

www.smec.in

Corporate Office

SMEC Automation Pvt Ltd.
2nd Floor,
Bus Stand Complex,
Kaloor, KOCHI-682017
Kerala, India
Tel:0484-2340904, 2336441

Work

Door No 38/1882
Maveli Road, Gandhi Nagar,
Kadavanthra, KOCHI-682020
Kerala, India.

Branches

Cochin Chennai
Manglore Mumbai
Thane Vizag
Trivandrum

Overseas

Dubai Sharjah